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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,913	06/24/2003	Kenichi Hashizume	884A.0007.U1(US)	4355
29683	7590	10/11/2006		EXAMINER
HARRINGTON & SMITH, LLP				CHANG, RICK KILTAE
4 RESEARCH DRIVE			ART UNIT	PAPER NUMBER
SHELTON, CT 06484-6212				3729

DATE MAILED: 10/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

AIT

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/603,913	HASHIZUME ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Rick K. Chang	3729	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### **Status**

1) Responsive to communication(s) filed on 27 July 2006.

2a) This action is **FINAL**.                            2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### **Disposition of Claims**

4) Claim(s) 1-20 and 33 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1-20 and 33 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### **Application Papers**

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### **Priority under 35 U.S.C. § 119**

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \* c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### **Attachment(s)**

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.

4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.

5) Notice of Informal Patent Application

6) Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-8, 12, 17-20 and 33 are rejected under 35 U.S.C. 102(b) as being anticipated by Nishihara et al (US 5,118,458).

Nishihara discloses in Figs. 6-9 fist molding a cover with embedded circuitry, Fig. 13 shows interconnecting the layers as a second molding, Fig. 15 shows mounting components, all the layers are flexible and resilient member, the layers can be any number depending on the design criteria, Figs. show press moulding. It is inherent that conductive paste is a metallic material.

### *Claim Rejections - 35 USC § 103*

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 9-10, 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishihara et al (US 5,118,458) in view of Official Notice.

Nishihara fails to disclose electroplating the electroconductive material onto the precursor.

Official Notice is taken that it is well known in the art to electroplate conductive material onto a substrate for forming conductors.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Nishihara by electroplating the electroconductive material onto the precursor, as taught by Official Notice, for the purpose of forming conductors.

5. Claims 11 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishihara et al (US 5,118,458)/Official Notice as applied to claims 5, 10, 12 and 13 above, and further in view of Politycki et al (US 3,767,538).

Nishihara/Official Notice disclose molding a conductive metal instead of resin. Nishihara/Official Notice fail to disclose treating the resin layer with a seeding or conductive metal.

Politycki discloses treating the resin layer with a seeding or conductive metal (Abstract).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Nishihara/Official Notice by treating the resin layer with a seeding or conductive metal, as taught by Politycki, for the purpose of enhancing adhesion between a resin layer and a metal layer.

6. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nishihara et al (US 5,118,458)/Official Notice/Politycki et al (US 3,767,538) as applied to claims 12-13 and 15 above, and further in view of Murakami et al (US 4,239,813).

Nishihara/Official Notice/Politycki fail to disclose that the carrier material comprises an ink and printing the carrier material on the substrate.

Murakami discloses the carrier material comprises an ink and printing the carrier material on the substrate (col. 1, lines 33-39).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Nishihara/Official Notice/Politycki by the carrier material comprises an ink and printing the carrier material on the substrate, as taught by Murakami, for the purpose of enhancing adhesion between a resin layer and a metal layer.

***Response to Arguments***

7. Applicant's arguments filed 7/27/06 have been fully considered but they are not persuasive.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., a method of moulding a cover for an electronic device and anything relating to the density of component packaging in electronic devices) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

***Interviews After Final***

8. **Applicant note that an interview after a final rejection must be submitted briefly in writing the intended purpose and content of the interview (the agenda of the interview must be in writing). Upon review of the agenda, the Examiner may grant the interview if the examiner is convinced that disposal or clarification for appeal may be accomplished with only nominal further consideration. Interviews merely to restate arguments of record or to discuss new limitations will be denied. See MPEP 714.13 and 713.09.**

*Conclusion*

9. **Please provide reference numerals (either in parentheses next to the claimed limitation or in a table format with one column listing the claimed limitation and another column listing corresponding reference numerals in the remark section of the response to the Office Action) to all the claimed limitations as well as support in the disclosure for better clarity (optional).** Applicants are duly reminded that a full and proper response to this Office Action that includes any amendment to the claims and specification of the application as originally filed requires that the applicant point out the support for any amendment made to the disclosure, including the claims. See 37 CFR 1.111 and MPEP 2163.06.

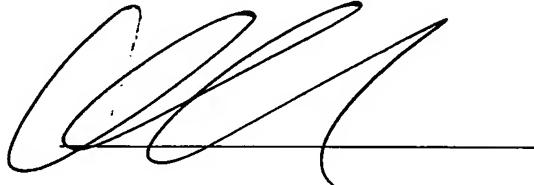
10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rick K. Chang whose telephone number is (571) 272-4564. The examiner can normally be reached on 5:30 AM to 1:30 PM, Monday through Thursday.

The fax phone numbers for the organization where this application or proceeding is assigned are (571) 273-8300 for regular communications and (571) 273-8300 for After Final communications.



RICHARD CHANG  
PRIMARY EXAMINER

RC

October 4, 2006